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The study of evolution at the molecular level has given the subject of evolutionary biology a new significance. Phylogenetic 'trees' of gene sequences are a powerful tool for recovering evolutionary relationships among species, and can be used to answer a broad range of evolutionary and ecological questions. They are also beginning to permeate the medical sciences. In this book, the authors approach the study of molecular evolution with the phylogenetic tree as a central metaphor. This will equip students and professionals with the ability to see both the evolutionary relevance of molecular

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data, and the significance evolutionary theory has for molecular studies. The book is accessible yet sufficiently detailed and explicit so that the student can learn the mechanics of the procedures discussed. The book is intended for senior undergraduate and graduate students taking courses in molecular evolution/phylogenetic reconstruction. It will also be a useful supplement for students taking wider courses in evolution, as well as a valuable resource for professionals. First student textbook of phylogenetic reconstruction which uses the tree as a central metaphor of evolution. Chapter summaries and annotated suggestions for further reading. Worked examples facilitate

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understanding of some of the more complex issues. Emphasis on clarity and accessibility.

This book describes the most complex machine ever sent to another planet: Curiosity. It is a one-ton robot with two brains, seventeen cameras, six wheels, nuclear power, and a laser beam on its head. No one human understands how all of its systems and instruments work. This essential reference to the Curiosity mission explains the engineering behind every system on the rover, from its rocket-powered jetpack to its radioisotope thermoelectric generator to its fiendishly complex sample handling system. Its lavishly illustrated text explains how all the instruments work -- its cameras, spectrometers, sample-

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cooking oven, and weather station -- and describes the instruments' abilities and limitations. It tells you how the systems have functioned on Mars, and how scientists and engineers have worked around problems developed on a faraway planet: holey wheels and broken focus lasers. And it explains the grueling mission operations schedule that keeps the rover working day in and day out. Richly illustrated with full-color images, this book is a comprehensive, up-to-date description of the planets, their moons, and recent exoplanet discoveries. This second edition of a now classic reference is brought up to date with fascinating new discoveries from 12 recent Solar System missions. Examples

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include water on the Moon, volcanism on Mercury's previously unseen half, vast buried glaciers on Mars, geysers on Saturn's moon Enceladus, lakes of hydrocarbons on Titan, encounter with asteroid Itokawa, and sample return from comet Wild 2. The book is further enhanced by hundreds of striking new images of the planets and moons. Written at an introductory level appropriate for undergraduate and high-school students, it provides fresh insights that appeal to anyone with an interest in planetary science. A website hosted by the author contains all the images in the book with an overview of their importance. A link to this can be found at www.cambridge.org/solarsystem. Collecting texts taken from letters,

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diaries, literature, scientific journals and reports, Pandæmonium gathers a beguiling narrative as it traces the development of the machine age in Britain. Covering the years between 1660 and 1886, it offers a rich tapestry of human experience, from eyewitness reports of the Luddite Riots and the Peterloo Massacre to more intimate accounts of child labour, Utopian communities, the desecration of the natural world, ground-breaking scientific experiments, and the coming of the railways. Humphrey Jennings, co-founder of the Mass Observation movement of the 1930s and acclaimed documentary film-maker, assembled an enthralling narrative of this key period in Britain's national consciousness. The result

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is a highly original artistic achievement in its own right. Thanks to the efforts of his daughter, Marie-Louise Jennings, *Pandæmonium* was originally published in 1985, and in 2012 it was the inspiration behind Danny Boyle's electrifying Opening Ceremony for the London Olympic Games. Frank Cottrell Boyce, who wrote the scenario for the ceremony, contributes a revealing new foreword for this edition.

Probability Theory and Stochastic Processes with Applications (Second Edition)

Free Will and Consciousness in the Multiverse

The Story of Physics

A History of Electricity and Life

Writing in Knowledge Societies

The Sun, the Earth, and Near-earth

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Space

Government Reports
Announcements & IndexOcean
Noise and Marine
MammalsNational Academies
Press

This book will serve as a primer for both laboratory and field scientists who are shaping the emerging field of molecular epidemiology. Molecular epidemiology utilizes the same paradigm as traditional epidemiology but uses biological markers to identify exposure, disease or susceptibility. Schulte and Perera present the

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epidemiologic methods pertinent to biological markers. The book is also designed to enumerate the considerations necessary for valid field research and provide a resource on the salient and subtle features of biological indicators.

The theory of networks aims at developing theoretical views on the design and management of alliances, franchise chains, licensing, joint ventures, cooperatives, and venture capital relations. The current trend in economics and

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management of networks is twofold: First there is a strong tendency toward application of theoretical approaches developed both in organizational economics, strategic management and organization theory. The second trend refers to the development of more integrative views on networks. Especially, combining organizational economics, strategic management and relational views on networks are very promising research directions. Starting from this status of research,

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the current book emphasizes network research as a theory-driven field by offering new perspectives on contract design, decision and ownership rights, value creation, knowledge management and the role of social capital in franchising networks, alliances and cooperatives.

Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level, this textbook also provides an overview of astrophysics

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for astrophysics graduate students, before they delve into more specialized volumes.

Assuming background knowledge at the level of a physics major, the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics.

Physical concepts, mathematical derivations and observational data are combined in a balanced way to provide a unified treatment. Topics such as general relativity and plasma physics, which are

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not usually covered in physics courses but used extensively in astrophysics, are developed from first principles. While the emphasis is on developing the fundamentals thoroughly, recent important discoveries are highlighted at every stage.

Methodologies of
Preliminary Design

Ship Design

Modern Physics

A Phylogenetic Approach

Government Reports

Announcements & Index

An Introduction to Global

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Geophysics

This book addresses various aspects of acoustic-phonetic analysis, including voice quality and fundamental frequency, and the effects of speech fluency and non-native accents, by examining read speech, public speech, and conversations.

Voice is a sexually dimorphic trait that can convey important biological and social information about the speaker, and empirical findings suggest that voice characteristics and preferences play an important role in both intra- and intersexual selection, such as competition and mating, and social evaluation. Discussing

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evaluation criteria like physical attractiveness, pleasantness, likability, and even persuasiveness and charisma, the book bridges the gap between social and biological views on voice attractiveness. It presents conceptual, methodological and empirical work applying methods such as passive listening tests, psychoacoustic rating experiments, and crowd-sourced and interactive scenarios and highlights the diversity not only of the methods used when studying voice attractiveness, but also of the domains investigated, such as politicians' speech,

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experimental speed dating, speech synthesis, vocal pathology, and voice preferences in human interactions as well as in human-computer and human-robot interactions. By doing so, it identifies widespread and complementary approaches and establishes common ground for further research.

The editors of *WRITING IN KNOWLEDGE SOCIETIES* provide a thoughtful, carefully constructed collection that addresses the vital roles rhetoric and writing play as knowledge-making practices in diverse knowledge-intensive settings. The essays in this book examine

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the multiple, subtle, yet consequential ways in which writing is epistemic, articulating the central role of writing in creating, shaping, sharing, and contesting knowledge in a range of human activities in workplaces, civic settings, and higher education.

Although speech is the primary behavioral medium by which humans communicate, its auditory basis is poorly understood, having profound implications on efforts to ameliorate the behavioral consequences of hearing impairment and on the development of robust

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algorithms for computer speech recognition. In this volume, the authors provide an up-to-date synthesis of recent research in the area of speech processing in the auditory system, bringing together a diverse range of scientists to present the subject from an interdisciplinary perspective. Of particular concern is the ability to understand speech in uncertain, potentially adverse acoustic environments, currently the bane of both hearing aid and speech recognition technology. There is increasing evidence that the perceptual stability characteristic of speech understanding is due,

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at least in part, to elegant transformations of the acoustic signal performed by auditory mechanisms. As a comprehensive review of speech's auditory basis, this book will interest physiologists, anatomists, psychologists, phoneticians, computer scientists, biomedical and electrical engineers, and clinicians.

The "Handbook of Smart Textiles" aims to provide a comprehensive overview in the field of smart textile describing the state of the art in the research sector as well as the well-established techniques

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applied in industries. The handbook is planned to cover from fundamental theories, experimental techniques, characterization methods, as well as real applications with successful commercialized examples. The book is structured in a way in which it is appropriate for graduate students, PhD candidates, and professionals in diverse scientific and engineering communities devoted to relevant fields, including textile engineering, chemistry, bioengineering, material engineering, mechanical engineering, electrical engineering. The book will also

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provide a solid reference for industrial players who look for innovative technologies as well as environmental, safety concerns for the development of smart textile related products.

Physics for Scientists and Engineers

Molecular Evolution

Chemistry

The Solid Earth

Studies on Sexy, Likable, and Charismatic Speakers

Pandaemonium 1660–1886

This book deals with ship design and in particular with methodologies of the preliminary design of ships.

The book is complemented

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by a basic bibliography and five appendices with useful updated charts for the selection of the main dimensions and other basic characteristics of different types of ships (Appendix A), the determination of hull form from the data of systematic hull form series (Appendix B), the detailed description of the relational method for the preliminary estimation of ship weights (Appendix C), a brief review of the historical evolution of shipbuilding science and technology from the prehistoric era to date

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(Appendix D) and finally a historical review of regulatory developments of ship's damage stability to date (Appendix E). The book can be used as textbook for ship design courses or as additional reading for university or college students of naval architecture courses and related disciplines; it may also serve as a reference book for naval architects, practicing engineers of related disciplines and ship officers, who like to enter the ship design field systematically or to use

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practical methodologies for the estimation of ship's main dimensions and of other ship main properties and elements of ship design.

An exploration of the production, transmission, and mutation of affective tonality—when sound helps produce a bad vibe. Sound can be deployed to produce discomfort, express a threat, or create an ambience of fear or dread—to produce a bad vibe. Sonic weapons of this sort include the “psychoacoustic correction” aimed at Panama strongman Manuel Noriega by the U.S.

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Army and at the Branch Davidians in Waco by the FBI, sonic booms (or “sound bombs”) over the Gaza Strip, and high-frequency rat repellants used against teenagers in malls. At the same time, artists and musicians generate intense frequencies in the search for new aesthetic experiences and new ways of mobilizing bodies in rhythm. In *Sonic Warfare*, Steve Goodman explores these uses of acoustic force and how they affect populations.

Traversing philosophy, science, fiction, aesthetics,

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and popular culture, he maps a (dis)continuum of vibrational force, encompassing police and military research into acoustic means of crowd control, the corporate deployment of sonic branding, and the intense sonic encounters of sound art and music culture. Goodman concludes with speculations on the not yet heard—the concept of unsound, which relates to both the peripheries of auditory perception and the unactualized nexus of rhythms and frequencies

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within audible bandwidths. This second edition has a unique approach that provides a broad and wide introduction into the fascinating area of probability theory. It starts on a fast track with the treatment of probability theory and stochastic processes by providing short proofs. The last chapter is unique as it features a wide range of applications in other fields like Vlasov dynamics of fluids, statistics of circular data, singular continuous random variables, Diophantine

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equations, percolation theory, random Schrödinger operators, spectral graph theory, integral geometry, computer vision, and processes with high risk. Many of these areas are under active investigation and this volume is highly suited for ambitious undergraduate students, graduate students and researchers.

It was not until 1971 that the authority for defining scientific units, the General Conference of Weights and Measures got around to defining the unit that is the

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basis of chemistry (the mole, or the quantity of something). Yet for all this tardiness in putting the chemical sciences on a sound quantitative basis, chemistry is an old and venerable subject and one naturally asks the question, why? Well, the truth is that up until the mid-1920s, many physicists did not believe in the reality of molecules. Indeed, it was not until after the physics community had accepted Ernest Rutherford's 1913 solar-system-like model of the atom, and the quantum

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mechanical model of the coupling of electron spins in atoms that physicists started to take seriously the necessity of explaining the chemical changes that chemists had been observing, investigating and recording since the days of the alchemists.

How the Mars Rover
Performs Its Job

Introduction to Astronomy
and Cosmology

Fluid Mechanics

The Pursuit of Excellence in
the Arts and Sciences, 800
B.C. to 1950

Decision Analysis for

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Healthcare Managers Sound, Affect, and the Ecology of Fear

Planetary atmospheres is a relatively new, interdisciplinary subject that incorporates various areas of the physical and chemical sciences, including geophysics, geophysical fluid dynamics, atmospheric science, astronomy, and astrophysics. Providing a much-needed resource for this cross-disciplinary field, *An Introduction to Planetary Atmospheres* presents current knowledge on atmospheres and the fundamental mechanisms operating on them. The

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author treats the topics in a comparative manner among the different solar system bodies—what is known as comparative planetology. Based on an established course, this comprehensive text covers a panorama of solar system bodies and their relevant general properties. It explores the origin and evolution of atmospheres, along with their chemical composition and thermal structure. It also describes cloud formation and properties, mechanisms in thin and upper atmospheres, and meteorology and dynamics. Each chapter focuses on these atmospheric topics in the way

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classically done for the Earth's atmosphere and summarizes the most important aspects in the field. The study of planetary atmospheres is fundamental to understanding the origin of the solar system, the formation mechanisms of planets and satellites, and the day-to-day behavior and evolution of Earth's atmosphere. With many interesting real-world examples, this book offers a unified vision of the chemical and physical processes occurring in planetary atmospheres. Ancillaries are available at www.ajax.ehu.es/planetary_atmospheres/

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For the 119 species of marine mammals, as well as for some other aquatic animals, sound is the primary means of learning about the environment and of communicating, navigating, and foraging. The possibility that human-generated noise could harm marine mammals or significantly interfere with their normal activities is an issue of increasing concern. Noise and its potential impacts have been regulated since the passage of the Marine Mammal Protection Act of 1972. Public awareness of the issue escalated in 1990s when researchers began using

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high-intensity sound to measure ocean climate changes. More recently, the stranding of beaked whales in proximity to Navy sonar use has again put the issue in the spotlight. Ocean Noise and Marine Mammals reviews sources of noise in the ocean environment, what is known of the responses of marine mammals to acoustic disturbance, and what models exist for describing ocean noise and marine mammal responses. Recommendations are made for future data gathering efforts, studies of marine mammal behavior and physiology, and modeling efforts necessary to determine what the long- and

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short-term impacts of ocean noise on marine mammals.

“Omics for Personalized Medicine” will give to its prospective readers the insight of both the current developments and the future potential of personalized medicine. The book brings into light how the pharmacogenomics and omics technologies are bringing a revolution in transforming the medicine and the health care sector for the better. Students of biomedical research and medicine along with medical professionals will benefit tremendously from the book by gaining from the diverse fields of knowledge of new age

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personalized medicine presented in the highly detailed chapters of the book. The book chapters are divided into two sections for convenient reading with the first section covering the general aspects of pharmacogenomic technology that includes latest research and development in omics technologies. The first section also highlights the role of omics in modern clinical trials and even discusses the ethical consideration in pharmacogenomics. The second section is focusing on the development of personalized medicine in several areas of human health. The topics

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covered range from metabolic and neurological disorders to non-communicable as well as infectious diseases, and even explores the role of pharmacogenomics in cell therapy and transplantation technology. Thirty-four chapters of the book cover several aspects of pharmacogenomics and personalized medicine and have taken into consideration the varied interest of the readers from different fields of biomedical research and medicine. Advent of pharmacogenomics is the future of modern medicine, which has resulted from culmination of decades of

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research and now is showing the way forward. The book is an honest endeavour of researchers from all over the world to disseminate the latest knowledge and knowhow in personalized medicine to the community health researchers in particular and the educated public in general.

This book reviews recent advances in the field of semiconductor quantum dots via contributions from prominent researchers in the scientific community.

Special focus is given to optical, quantum optical, and spin properties of single quantum dots.

Ocean Noise and Marine

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Mammals

A Guide to the Sun-earth System

An Evidence-based Practical Guide for Nurses

A Short Course for Physicists

An Introduction to Planetary Atmospheres

The Design and Engineering of Curiosity

The first part of the book explains the various analytical tools that simplify and accelerate decision making. Learn about tools that help you determine causes, evaluate choices, and forecast future events. For occasions when a group, rather than an individual, has to make a decision, you will also learn what tools can help you create group consensus. The second half of the book shows you how to apply

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analytical tools to different healthcare situations, including comparing clinician performance, determining the causes for medical errors, analyzing the costs of programs, and determining the market for new services. Many practical examples walk you step-by-step through common decision-making scenarios. The multidisciplinary field of fluid mechanics is one of the most actively developing fields of physics, mathematics and engineering. In this book, the fundamental ideas of fluid mechanics are presented from a physics perspective. Using examples taken from everyday life, from hydraulic jumps in a kitchen sink to Kelvin–Helmholtz instabilities in clouds, the book provides readers with a better understanding of the world around them. It teaches the art

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of fluid-mechanical estimates and shows how the ideas and methods developed to study the mechanics of fluids are used to analyze other systems with many degrees of freedom in statistical physics and field theory. Aimed at undergraduate and graduate students, the book assumes no prior knowledge of the subject and only a basic understanding of vector calculus and analysis. It contains 32 exercises of varying difficulties, from simple estimates to elaborate calculations, with detailed solutions to help readers understand fluid mechanics.

This open access book aims to primarily support nurses as leaders and champions of multimodal, Interdisciplinary nutrition care for older adults. A structured approach to fundamentals of nutrition care across

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Interdisciplinary settings is combined with additional short chapters about special topics in geriatric nutrition. The book is designed to provide highly accessible information on evidence-based management and care for older adults, with a focus on practical guidance and advice across acute, rehabilitation, and primary and secondary malnutrition prevention settings. The cost of malnutrition in England alone has been estimated to be 119.6 billion per year, or more than 15% of the total public expenditure on health and social care. ^65 years). The importance and benefit of specialised nutrition care, delivered by experts in field, is well established for those with complex nutrition care needs. However, despite the substantial adverse impact of malnutrition on patient and

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healthcare outcomes, specialised management of this condition is often under-resourced, overlooked and under-prioritised by both older adults and their treating teams. As an alternative, timely, efficient, and effective supportive nutrition care opportunities may be appropriately implemented by nurses and non-specialist Interdisciplinary healthcare team members, working together with nutrition specialists and the older adults they care for. Practical, low-risk opportunities should be considered across nutrition screening, assessment, intervention, and monitoring domains for many patients with, or at risk of malnutrition. Whilst a variety of team members may contribute to supportive nutrition care, the nursing profession provide a clear focal point. Nurses across

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diverse settings provide the backbone for Interdisciplinary teamwork and essential patient care. The nursing profession should consequently be considered best placed to administer Interdisciplinary, multimodal nutrition care, wherever specialist nutrition care referrals are unlikely to add value or are simply not available. As such, the book is a valuable resource for all healthcare providers dedicated to working with older patients to improve nutrition care.

" ... Concise explanations and descriptions - easily read and readily understood - of what we know of the chain of events and processes that connect the Sun to the Earth, with special emphasis on space weather and Sun-Climate."--Dear Reader.

Astrophysics for Physicists

The Manga Guide to the Universe

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Music: A Mathematical Offering
Franchising, Alliances and
Cooperatives

Interdisciplinary Nutritional
Management and Care for Older
Adults

Single Semiconductor Quantum Dots

**?? Giant molecules are
important in our everyday life.**

**But, as pointed out by the
authors, they are also
associated with a culture.**

**What Bach did with the
harpsichord, Kuhn and Flory
did with polymers. We owe a
lot of thanks to those who now
make this music accessible**

**??Pierre-Gilles de GennesNobel
Prize laureate in**

**Physics(Foreword for the 1st
Edition, March 1996)This book**

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describes the basic facts, concepts and ideas of polymer physics in simple, yet scientifically accurate, terms. In both scientific and historic contexts, the book shows how the subject of polymers is fascinating, as it is behind most of the wonders of living cell machinery as well as most of the newly developed materials. No mathematics is used in the book beyond modest high school algebra and a bit of freshman calculus, yet very sophisticated concepts are introduced and explained, ranging from scaling and reptations to protein folding and evolution.

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The new edition includes an extended section on polymer preparation methods, discusses knots formed by molecular filaments, and presents new and updated materials on such contemporary topics as single molecule experiments with DNA or polymer properties of proteins and their roles in biological evolution. Electricity has shaped the modern world. But how has it affected our health and environment? Over the last 220 years, society has evolved a universal belief that electricity is 'safe' for humanity and the planet.

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Scientist and journalist Arthur Firstenberg disrupts this conviction by telling the story of electricity in a way it has never been told before--from an environmental point of view--by detailing the effects that this fundamental societal building block has had on our health and our planet. In The Invisible Rainbow, Firstenberg traces the history of electricity from the early eighteenth century to the present, making a compelling case that many environmental problems, as well as the major diseases of industrialized civilization--heart disease, diabetes, and cancer--are

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related to electrical pollution. A sweeping cultural survey reminiscent of Barzun's From Dawn to Decadence. "At irregular times and in scattered settings, human beings have achieved great things. Human Accomplishment is about those great things, falling in the domains known as the arts and sciences, and the people who did them." So begins Charles Murray's unique account of human excellence, from the age of Homer to our own time. Employing techniques that historians have developed over the last century but that have rarely

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been applied to books written for the general public, Murray compiles inventories of the people who have been essential to the stories of literature, music, art, philosophy, and the sciences—a total of 4,002 men and women from around the world, ranked according to their eminence. The heart of Human Accomplishment is a series of enthralling descriptive chapters: on the giants in the arts and what sets them apart from the merely great; on the differences between great achievement in the arts and in the sciences; on the meta-

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inventions, 14 crucial leaps in human capacity to create great art and science; and on the patterns and trajectories of accomplishment across time and geography.

Straightforwardly and undogmatically, Charles Murray takes on some controversial questions. Why has accomplishment been so concentrated in Europe? Among men? Since 1400? He presents evidence that the rate of great accomplishment has been declining in the last century, asks what it means, and offers a rich framework for thinking about the conditions under which the human spirit

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has expressed itself most gloriously. Eye-opening and humbling, Human Accomplishment is a fascinating work that describes what humans at their best can achieve, provides tools for exploring its wellsprings, and celebrates the continuing common quest of humans everywhere to discover truths, create beauty, and apprehend the good. For the intermediate-level course, the Fifth Edition of this widely used text takes modern physics textbooks to a higher level. With a flexible approach to accommodate the various ways of teaching the course

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(both one- and two-term tracks are easily covered), the authors recognize the audience and its need for updated coverage, mathematical rigor, and features to build and support student understanding. Continued are the superb explanatory style, the up-to-date topical coverage, and the Web enhancements that gained earlier editions worldwide recognition. Enhancements include a streamlined approach to nuclear physics, thoroughly revised and updated coverage on particle physics and astrophysics, and a review of

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***the essential Classical
Concepts important to
students studying Modern
Physics.***

***Here, There, and Everywhere
Measurement, Analysis and
Remediation of Environmental
Pollutants***

***The Cambridge Dictionary of
Statistics***

***Physics, Philosophy, and
Quantum Decision Making***

***The Cambridge Guide to the
Solar System***

The Invisible Rainbow

*It is a widely held belief that a
climax vegetation of closed
forest systems covered the
lowlands of Central and Western
Europe before man intervened in*

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prehistoric times to develop agriculture. If this intervention had not taken place, the forest would still be there, and if left the grassland vegetation and fields now present would revert to a natural closed forest state, although with a reduced number of wild species. This book, which an updated and expanded version of the author's 1997 thesis (presented to the Wageningen University, Netherlands), challenges the traditional view, using examples from history, pollen analyses and studies on the ecology of tree and shrub species such as oak and hazel. It tests the hypothesis

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that the climax vegetation is a closed canopy forest, against the alternative hypothesis that species composition and vegetational succession were governed by large herbivores, and that the Central and Western European lowlands were covered by a park-like landscape consisting of grasslands, scrub, solitary trees and groves bordered by a mantle and fringe vegetation. Comparative information from the eastern USA is also included throughout the book (this was not present in the thesis), because the forests there are commonly regarded as being analogous to the primeval

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vegetation in Europe. The book is arranged in 7 chapters: (1) General introduction and formulation of the problem; (2) Succession, the climax forest and the role of large herbivores; (3) Palynology, the forest as climax in prehistoric times and the effects of humans; (4) The use of the wilderness from the Middle Ages up to 1900; (5) Spontaneous succession in forest reserves in the lowlands of Western and Central Europe - including examples from France, Germany, Austria, Slovenia, Sweden, Poland; (6) Establishment of trees and shrubs in relation to light and

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grazing; and (7) Final synthesis and conclusions. Twelve appendices are included giving further information, and there are 67 pages of references and a subject index.

Join Kanna, Kanta, Yamane, and Gloria in The Manga Guide to the Universe as they explore our solar system, the Milky Way, and faraway galaxies in search of the universe's greatest mysteries: dark matter, cosmic expansion, and the Big Bang itself. As you rocket across the night sky, you'll become acquainted with modern astronomy and astrophysics, as well as the classical discoveries and

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theories on which they're built. You'll even learn why some scientists believe finding extraterrestrial life is inevitable! You'll also learn about:

- Discoveries made by Copernicus, Galileo, Kepler, Hubble, and other seminal astronomers*
- Theories of the universe's origins, evolution, and geometry*
- The ways you can measure and observe heavenly bodies with different telescopes, and how astronomers calculate distances in space*
- Stellar classifications and how the temperature, size, and magnitude of a star are related*
- Cosmic background*

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radiation, what the WMAP satellite discovered, and scientists' predictions for the future of the universe So dust off your flight suit and take a fantastic voyage through the cosmos in The Manga Guide to the Universe.

Explores interaction between music and mathematics including harmony, symmetry, digital music and perception of sound.

This book discusses contamination of water, air, and soil media. The book covers health effects of such contamination and discusses remedial measures to improve the situation. Contributions by

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experts provide a comprehensive discussion on the latest developments in the detection and analysis of contaminants, enabling researchers to understand the evolution of these pollutants in real time and develop more accurate source apportionment of these pollutants. The contents of this book will be of interest to researchers, professionals, and policy makers alike.

*Voice Attractiveness
Handbook of Smart Textiles
Principles and Practices
The Molecule as Meme
Molecular Epidemiology
It is hard to interpret*

quantum mechanics. The most surprising, but also most parsimonious, interpretation is the many-worlds, or quantum-multiverse interpretation, implying a permanent coexistence of parallel realities. Could this perhaps be the appropriate interpretation of quantum mechanics? This book collects evidence for this interpretation, both from physics and from other fields, and proposes a subjectivist version of it, the clustered-minds multiverse. The author explores its implications

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through the lens of decision making and derives consequences for free will and consciousness. For example, free will can be implemented in the form of vectorial choices, as introduced in the book. He furthermore derives consequences for research in the social sciences, especially in psychology and economics.

A fully up-dated edition of this acclaimed undergraduate geophysics textbook.

If you use statistics and need easy access to simple, reliable definitions and

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explanations of modern statistical concepts, then look no further than this dictionary. Over 3600 terms are defined, covering medical, survey, theoretical, and applied statistics, including computational aspects. Entries are provided for standard and specialized statistical software. In addition, short biographies of over 100 important statisticians are given. Definitions provide enough mathematical detail to clarify concepts and give standard formulae when these are helpful. The majority of definitions then

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give a reference to a book or article where the user can seek further or more specialized information, and many are accompanied by graphical material to aid understanding.

This book is uniquely about the relationship between the optical telescope and astronomy as they developed together. It covers the time between the telescope's pivotal invention in the 1600's up to the modern era of space-based telescopes. Over the intervening centuries, there were huge improvements in the optical resolution of

telescopes, along with changes in their positioning and nature of application that forever altered the course of astronomy. For a long time, the field was an exclusive club for self-motivated stargazers who could afford to build their own telescopes. Many of these leisure-time scholars left their mark by virtue of their meticulous observations and record keeping. Although they would now be considered amateurs, these figures and their contributions were pivotal and are covered in this book alongside

professionals, for the first time giving a complete picture of the history of telescopic science.

Sonic Warfare

Speech Processing in the Auditory System

Grazing Ecology and Forest History

The Coming of the Machine as Seen by Contemporary Observers

Human Accomplishment

Giant Molecules

Traces the development of physics from 2000 years ago to the experimental theories of the 20th century.

"Chemistry is designed for the two-semester general chemistry

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